

# Interferometer Upgrade Kit

## FOR STATIC OR PHASE SHIFTING INTERFEROMETERS

### Make Use of Your Existing Interferometer

Get the latest hardware and software and save up to 75% over the cost of a new system

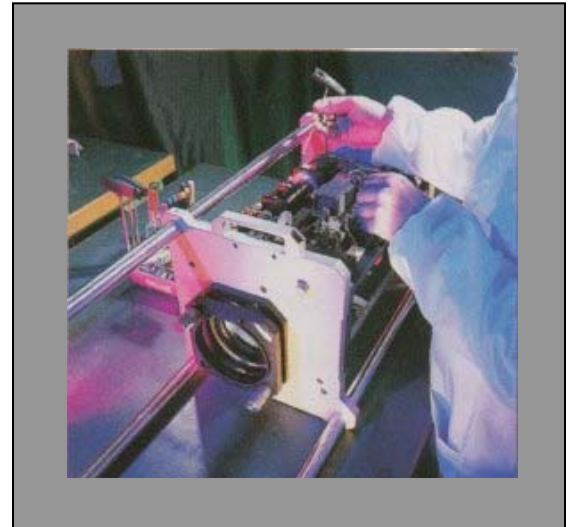
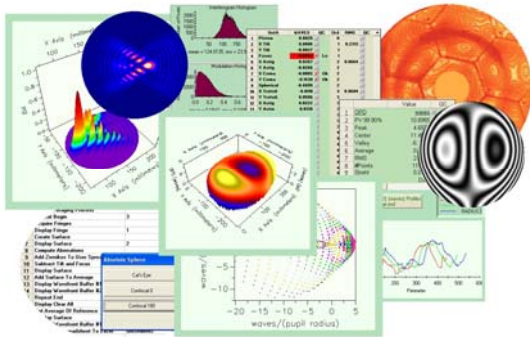
Stop using your out-dated, old-model interferometer for new projects. Any interferometer, including those no longer supported by the original manufacturer, such as the Zygo™ Mark series and the Wyko™ 400 & 6000, can be brought up to speed with the latest phase shifting capabilities and analysis.

#### What you get with this USER-INSTALLABLE kit:

- **IntelliWave™** Interferogram Analysis Software
- Phase Shift Adapter (for phase shifting option)
- Phase Shift Controller Card
- High Resolution Camera
- Frame Grabber

#### IntelliWave™ analysis software features:

- Fringe Tracing, **IntelliPhase™** – static spatial carrier analysis, PZT Phase Shifting
- Peak-to Valley and RMS
- Zernike and Seidel Aberrations
- Diffraction Analysis, Geometric Analysis
- Slope and Curvature Maps
- Analysis Wizards
- Plug-in Architecture and Automation Capabilities
- Multiple Unwrapping Algorithms
- Powerful Automation Scripting Language (150 functions)
- Shearing and Speckle Interferometry
- Masks: Grouping, Boolean, Scaling
- Wizards include: Three Flat Test, Absolute Sphere, Homogeneity, ROC, Parallelism, Prism and Diamond Turning X-Offset Measurements
- 10 Years of Use by the Industry



#### Repair Broken Phase Shifting Interferometers

- Zygo™ Mark Series
- Wyko™ 400 & 6000 Series
- ADE™ Phase Shift Minifit
- Buccini™
- Or Any Twyman-Green, Michelson, or Fizeau Interferometer

#### Retrofit Static Interferometers with Phase Shifting Capabilities



All specifications are subject to change without notice.



Surface & Wavefront Metrology Beyond Compare

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## Phase Shifting Upgrade Kit Specifications

Camera	Resolution	Shutter Control	Power Requirement	Size (mm <sup>3</sup> )
2/3 " TD-170	768 x 580	Yes	12 V 300 mA	46 x 40 x 79
<b>Phase Shift Adapters</b>				
	Clear Aperture (mm)	Capacity (mm)	Voltage (V)	Travel (μm)
100-PMR	100	150	10	15
40-PMR	40	60	10	15

## Static Upgrade Kit Specifications

Camera	Resolution	Shutter Control	Power Requirement	Size (mm <sup>3</sup> )
2/3 " TD-170	768 x 580	Yes	12 V 300 mA	46 x 40 x 79
<b>Phase Shift Carrier</b>				
<b>IntelliPhase™</b> (static spatial carrier analysis)	<b>Clear Aperture (mm)</b>  the same as your interferometer's			

### IntelliWave™ Analysis Software:

#### Acquisition

- Acquire from virtually any interferometer
- **IntelliPhase™** - static spatial carrier analysis
- Fringe Tracing, Phase Shifting, Simultaneous

#### Production

- Automation and Quality Control
- 3 Flat Test, 2 Sphere Test, Homogeneity, Angle/Wedge, ROC
- Plug-In interfaces to match any application
- Customized Reports

#### Complete Interferogram Analysis

- The best fringe unwrapping on the market
- Five polynomial sets to choose from
- Diffraction and geometric analysis
- Derivatives and Integrals
- Complex masking including unlimited mask groups
- Fiducials and image transformations

#### R&D

- Interface to MATLAB™, IDL™, LabVIEW™, Excel™
- Client/Server architecture for remote control
- Choose from over 15 different algorithms for data reduction

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